

METHOD FOR RECOVERING USEFUL COMPONENTS FROM
ELECTROLYTIC PHOSPHATE CHEMICAL TREATMENT BATH

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ABSTRACT OF THE DISCLOSURE

10 The present invention provides means for recovering
and reusing useful component ions in electrolytic
phosphate chemical treatment bath without subjecting them
to waste water treatment. In the present invention, a
phosphate chemical treatment bath which contains
15 phosphate ions and phosphoric acid, metal ions that form
a phosphate crystal to provide a film, metal ions that
are reduced from cations in the solution to form a film
as metals, and ions that are involved in the reaction of
the above-mentioned phosphoric acid and various metal
20 ions to form a film, but which does not substantially
contain ions that are not involved in film formation, is
used as the phosphate chemical treatment bath. The
aqueous solution in the washing water tank with which
phosphate chemical treatment liquid adhered to the
treated article after chemical treatment is contacted for
25 dilution and washing, is subjected to electrodialysis,
and useful components in said aqueous solution are
thereby recovered and returned to the chemical treatment
bath.